

FIG. 1

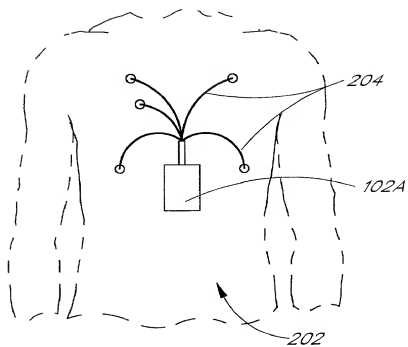


FIG. 2

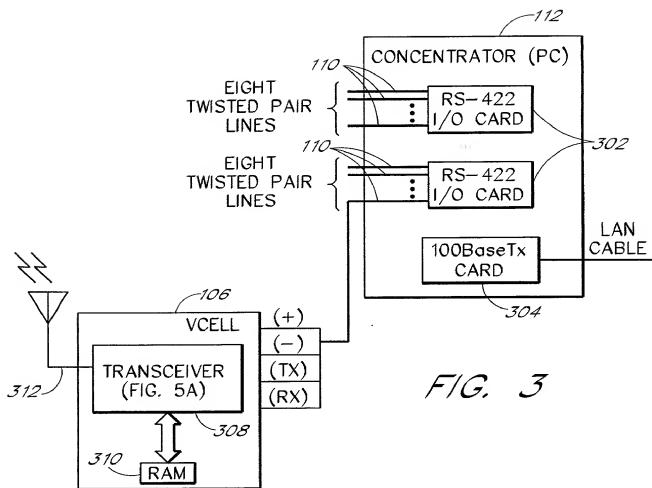


FIG. 3

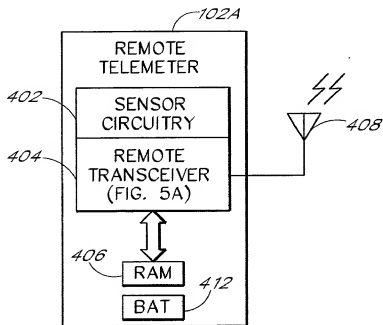


FIG. 4

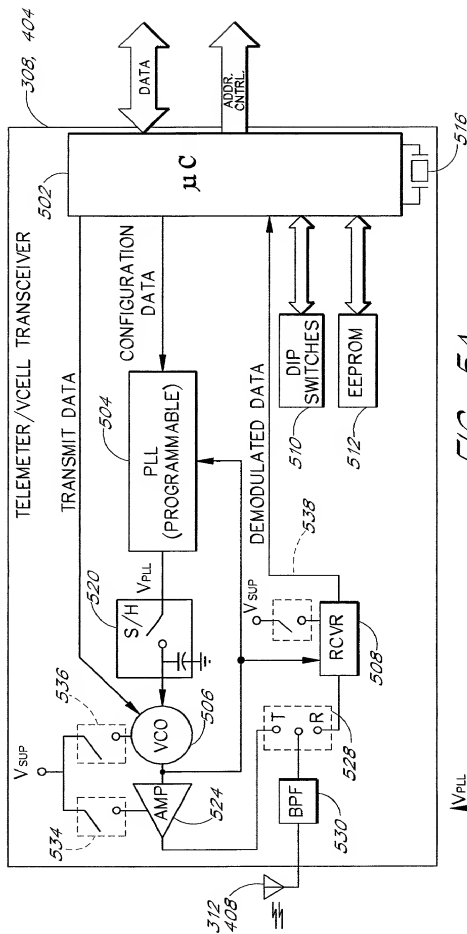


FIG. 5A

FIG. 5B

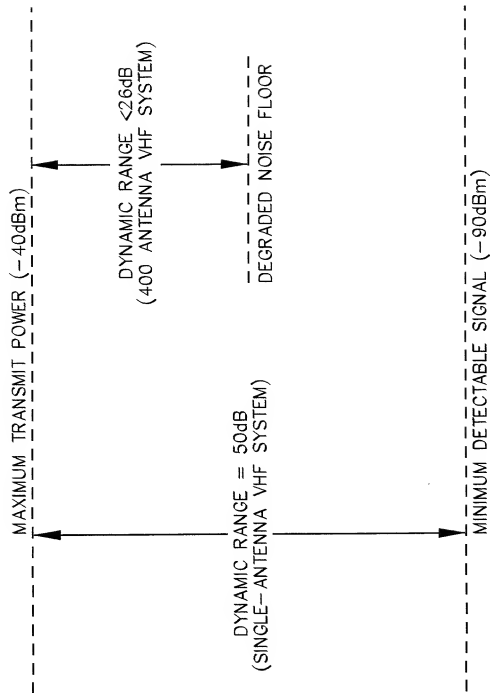
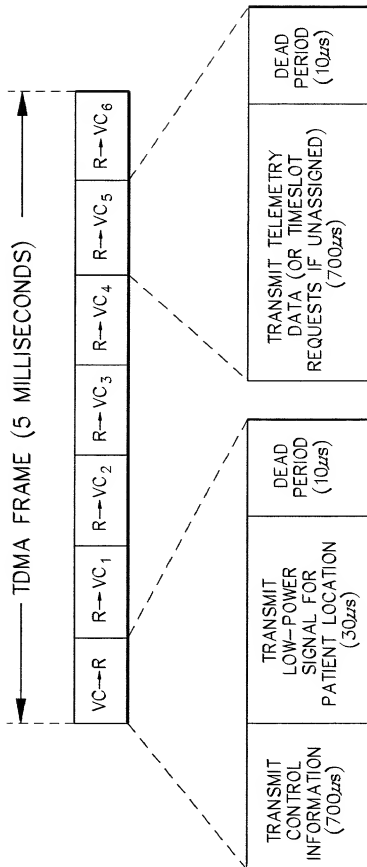


FIG. 6



LEGEND

VC = VCELL

R = REMOTE TELEMETER

FIG. 8

TIMESLOT STATUS TABLE

900

ASSIGNED
FRAMES SINCE
LAST PACKET

SLOT 1	SLOT 2	SLOT 3	SLOT 4	SLOT 5	SLOT 6
✓	✓		✓	✓	
0	0	(NA)	3	0	(NA)

FIG. 9

VCELL CATALOG

1100

VCELL1 (f1)
VCELL2 (f2)
VCELL3 (f3)
VCELL4 (f4)
VCELL5 (f5)
VCELL6 (f6)
VCELL7 (f7)
VCELL8 (f8)
VCELL9 (f9)
VCELL10 (f10)

RATING	CONNECTED TO	LOW-PWR. SIGNAL STRENGTH
7		1
8	✓	9
8		6
8	✓	6
6		1
2		0
0		0
0		0
3		0
5		1

FIG. 11

POWER-ON
INITIALIZATION
(SET ALL R→VC
TIMESLOTS TO "FREE")

VCELL PROTOCOL

1000

FIG. 10

TX CONTROL MSG.
(710 μ s)

TX LOW-POWER
PATIENT LOC. SIGNAL
30 μ s

N = 1

LISTEN TO SLOT N

SLOT N
ASSIGNED ?

NO

YES

R→VC
MSG.
RECEIVED ?

YES

FORWARD PACKET
TO
CONCENTRATOR

NO

TIMEOUT ?

YES

SET SLOT N TO "FREE"

SLOT
REQUEST ?

NO

YES

SET SLOT N TO
"ASSIGNED"; SET
FLAG TO SEND OUT
CONFIRMATION ON
NEXT VC→R
TIME SLOT

N = N+1

N > 6 ?

YES

NO

1 TDMA FRAME

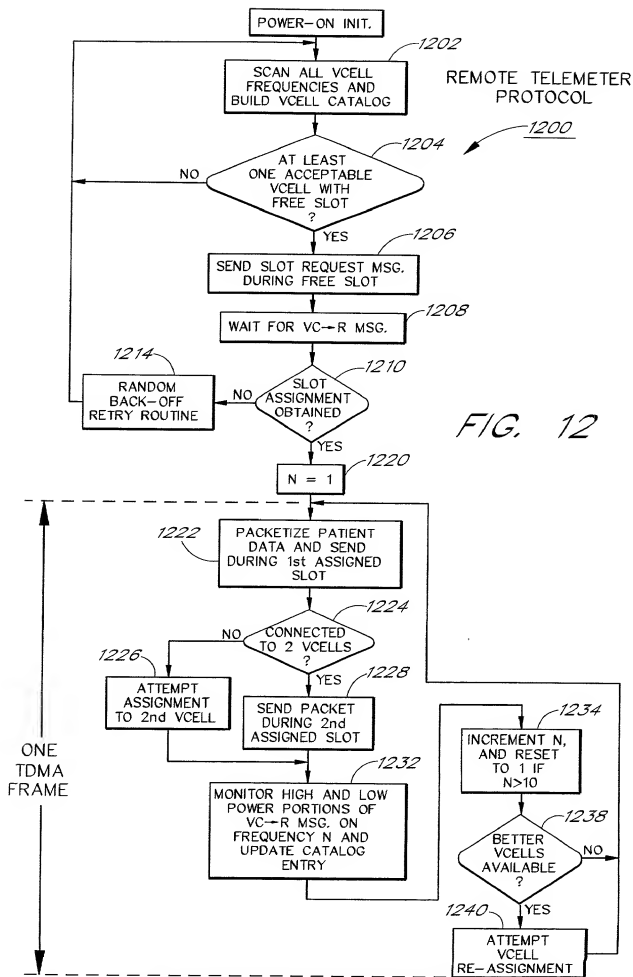


FIG. 13

